

Fig. 1

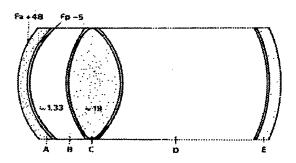


Fig. 2

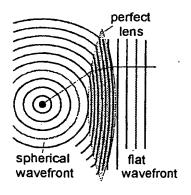


Fig. 3a

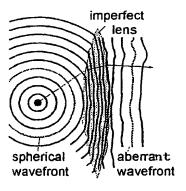


Fig. 3b

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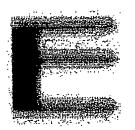


Fig. 4b

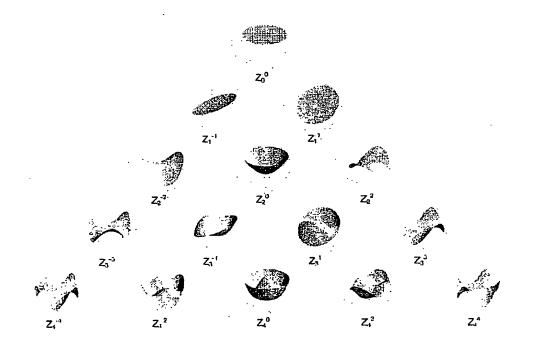


Fig. 5

Term	Order	Polar form	Cartesian form	Description
$Z_0^{\ 0}$	0	1	1	·
Z_1^{-1}	1	ρsin Θ	x	inclination about the y axis
Z_1^i	1	$\rho\cos\Theta$	Y	inclination about the x axis
Z_2^{-2}	2	$ ho^2 \sin 2\Theta$	2xy	astigmatism with axis a $\pm \pi/4$
Z_2^0	2	$2\rho^2-1$	-1+2x ² +2y ²	focus translation
Z_2^2	2	$\rho^2 \cos 2\Theta$	-x ² +y ²	astigmatism with axis at 0 or π
Z_{3}^{-3}	3	$\rho^3 \sin 3\Theta$	-x ³ +3xy ²	triangular astigmatism with base on the x axis
Z_3^{-1}	3	$(3\rho^3-2\rho)\sin\Theta$	-2x +3x ³ +3xy ²	third order coma along the x axis
$Z_3^{\ 1}$	3	$(3\rho^3-2\rho)\cos\Theta$	-2y +3x ² y+3y ³	third order coma along the x axis
$Z_3^{\ 3}$	3	$\rho^3 \cos 3\Theta$	-3x ² y+y ³	triangular astigmatism with base on the y axis
Z_4^{-4}	4	$\rho^4 \sin 4\Theta$	-4x³y+4xy³	
Z_4^{-2}	4	$(4\rho^4 - 3\rho^2)\sin 2\Theta$	6xy +8x³y+8xy³	
Z, 0	4	$6\rho^4 - 6\rho^2 + 1$	$1-6x^2-6y^2+6x^4++12x^2y^2+6y^4$	spherical aberration
Z_4^2	4	$(4\rho^4 - 3\rho^2)\cos 2\Theta$	3x ² -3y ² -4x ⁴ +4y ⁴	
Z_4^4	4	$\rho^4 \cos 4\Theta$	x ⁴ -6x ² y ² +y ⁴	

Fig. 6

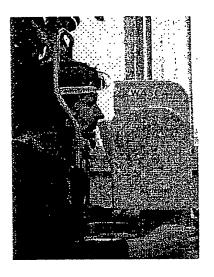


Fig. 7

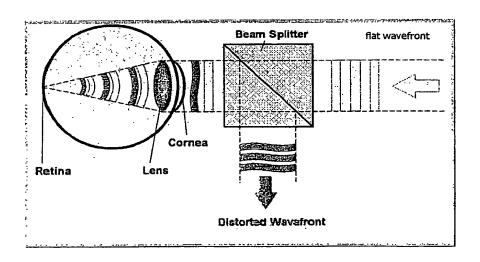


Fig. 8

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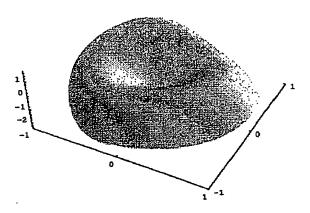


Fig. 9

II order	III order	IV order
		Z ₄ ⁻⁴ : -0.188
	Z_3^{-3} : -0.185	
Z ₂ -2: -0.722		Z ₄ -2: -0.112
	Z ₃ -1: -0.746	
Z_2^0 : -0.079		Z_4^0 : -0.873
	Z ₃ ¹ : -0.466	
Z_2^2 : -0.254		Z_4^2 : -0.093
	Z_3^3 : -0.035	-
		Z_4^4 : 0.105

Fig. 10

	1	
quantity	value	
sphere .	X -0.	30 d
1 cylinder	X -0.	50 d
axis	<u> </u>	_8°
2 pupil diam	ete 3.59	mm
3 analysis	ian 3.59	9 mm
Z(3,-3):	0.06	1 µm
Z(3;-1)	-0.14	3 µm
Z(3 _i 1)	-0.09	6 µm
Z(3,3)	-0.05	9 µm
4 Z(4,-4)	0.04	7 µm
Z(4,-2).	0.00	7 µm
Z(4,0)	-0.04	8 µm
Z(4,2)	-0.01	7 µm
Z(4,4)	0.00	2 µm
PV OPD	2.0	8 µm
5 RMS OPD	0.4	5 µm
PV OPD I	O 0.4	1 µm
RMS OPD	HC 0.0	7 µm
x offset	-0.53	mm
6 y offset	-0.83	mm E

Fig. 11

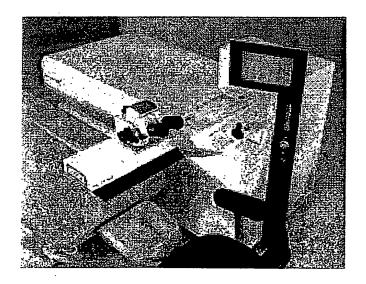
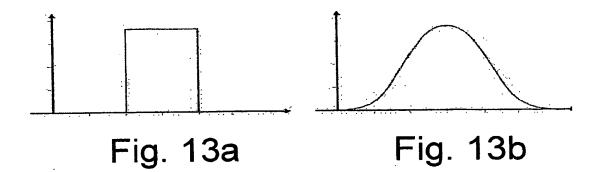


Fig. 12



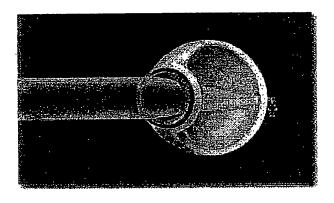


Fig. 14

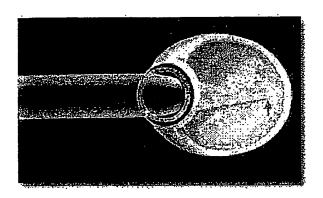


Fig. 15

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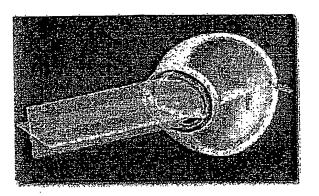


Fig. 16

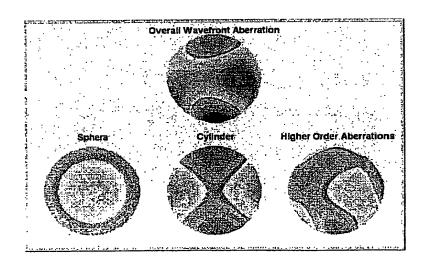
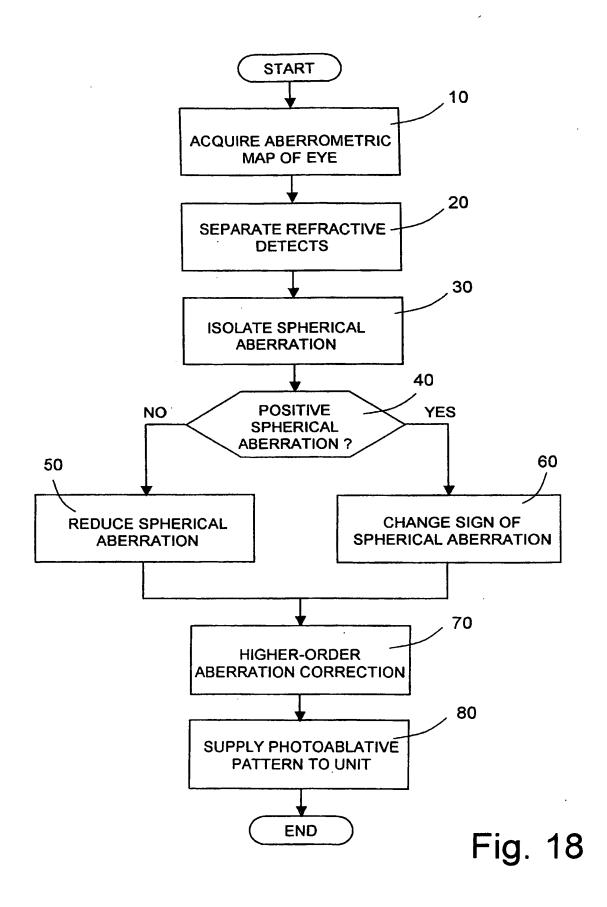


Fig. 17



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